



PATENT  
ATTORNEY DOCKET NO. 045070-5036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Yuji IMAIZUMI et al.

Application No.: 10/671,721

Filed: September 29, 2003

For: APPARATUS AND METHOD FOR  
MEASURING INTRACELLULAR REACTIONS

Group Art Unit: Unassigned

Examiner: Unassigned

Commissioner for Patents  
U.S. Patent and Trademark Office  
2011 South Clark Place  
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Arlington, VA 22202

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b) Applicants bring to the attention of the Examiner the documents listed on the attached PTO-1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-captioned application. Accordingly, Applicants do not believe that a fee is due for filing this paper.

Copies of the listed documents are attached. Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form.

One document listed on the attached PTO-1449, JP 09-005243, is in a language other than English. The relevance of the document can be ascertained by the English Language Abstract that is provided for the document.

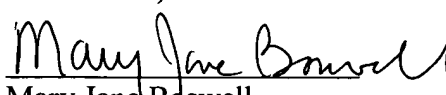
This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents is material or constitutes "Prior Art." If it should be determined that any of the listed documents does not constitute "Prior Art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

**EXCEPT** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§ 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

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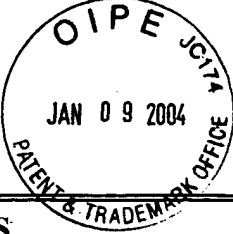
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<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  <b>PTO Form-1449</b>		Attorney Docket No.: 045070-5036	Application No.: 10/671,721
		Applicant(s): <span style="float: right;"><b>PAGE 1 OF 1</b></span> Yuji IMAIZUMI et al.	
		Filing Date: Sept. 29, 2003	Group: To Be Assigned

### U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

### FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation Yes	No
JP 09-005243	Jan. 10, 1997	Japan			X (Abstract Only)	

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Tang et al., "Development and Evaluation of High Throughput Functional Assay Methods for hERG Potassium Channel", <i>Journal of Biomolecular Screening</i> , Vol. 6, No. 5, pp. 325-331 (2001)
	Kain et al., "Green Fluorescent Protein as a Reporter of Gene Expression and Protein Localization", <i>BioTechniques</i> , Vol. 19, No. 4, pp. 650-655 (1995)
	Yamada et al., "Usefulness and Limitation of DiBAC <sub>4</sub> (3), a Voltage-Sensitive Fluorescent Dye, for the Measurement of Membrane Potentials Regulated by Recombinant Large Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channels in HEK293 Cells", <i>Jpn. J. Pharmacol.</i> , Vol. 86, pp. 342-350 (2001)
	Trouet et al., "Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells", <i>Pflügers Arch - Eur J Physio</i> , Vol. 434, pp. 632-638 (1997)
	Plautz et al., "Green fluorescent protein and its derivatives as versatile markers for gene expression in living <i>Drosophila melanogaster</i> , plant and mammalian cells", <i>Gene</i> , Vol. 173, pp. 83-87 (1996)
	Chalfie et al., "Green Fluorescent Protein as a Marker for Gene Expression", <i>Science</i> , Vol. 263, pp. 802-805 (1994)
	Epps et al., "Characterization of the steady-state and dynamic fluorescence properties of the potential-sensitive dye bis-(1,3-dibutylbarbituric acid)trimethine oxonol (Dibac <sub>4</sub> (3)) in model systems and cells", <i>Chemistry and Physics of Lipids</i> , Vol. 69, pp. 137-150 (1994)
	Bräuner et al., "Comparative Measurements Of Membrane Potentials With Microelectrodes and Voltage-Sensitive Dyes", <i>Biochimica et Biophysica Acta</i> , Vol. 771, pp. 208-216 (1984)
	Gopalakrishnan et al., "Characterization of the ATP-Sensitive Potassium Channels (K <sub>ATP</sub> ) Expressed in Guinea Pig Bladder Smooth Muscle Cells", <i>The Journal of Pharmacology and Experimental Therapeutics</i> , Vol. 289, No. 1, pp. 551-558 (1999)
	Langheinrich et al., "Hyperpolarization of isolated capillaries from guinea-pig heart induced by K <sup>+</sup> channel openers and glucose deprivation", <i>Journal of Physiology</i> , Vol. 502.2, pp. 397-408 (1997)

Examiner

Date Considered

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.